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**JP11279671A2: SPECIAL COPPER ALLOY WITH CORROSION RESISTANCE AND HIGH HARDNESS**[View Images \(1 pages\)](#) | [View INPADOC only](#)

Country: **JP Japan**

Kind: **A2 Document Laid Open to Public Inspection**

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Application Number: **JP1998000119856**

IPC Class: **C22C 9//01;**

Abstract: **Problem to be solved:** To provide a copper alloy having a color tone very close to gold, also having superior corrosion resistance and high hardness, and excellent in electric conductivity. **Solution:** This alloy is a copper alloy having a composition consisting of, by weight, copper as an essential component, 2-10% aluminum, 2-5% nickel, 0.5-5% iron, 0.1-3% manganese, 0.001-1% titanium, 0.001-0.5% boron, and inevitable impurities accompanying copper. Relating to this alloy, fine intermetallic compounds are formed by the addition of these minute amounts of titanium, manganese, and boron and the grain growth in the course of heat treatment is inhibited. As the result, the high strength conductive copper alloy excellent in mechanical properties and having a color tone extremely close to gold color is obtained.

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Other Abstract Info: **CHEMABS 131(20)275316B CHEMABS 131(20)275316B DERABS C1999-629621 DERABS C1999-629621**

Foreign References: **(No patents reference this one)**

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